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PCT 10/516931

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

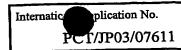
Applicant's or agent's file reference FI-2603	I FUR FURTHER ACTION Decliminary Evamination Deport (Form PCT/IPFA/416)						
International application No. PCT/JP2003/007611	International filing date (day/month/year) 16 June 2003 (16.06.2003)		Priority date (day/month/year) 18 June 2002 (18.06.2002)				
International Patent Classification (IPC) or national classification and IPC B01J 23/44, C08F 8/04, C10G 45/10							
Applicant IDI	EMITSU PETROCH	EMICAL CO., L	TD.				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been 							
amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.							
3. This report contains indications relating to the following items: I Basis of the report Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application							
Date of submission of the demand 24 December 2003 (24.12.2003)		Date of completion of this report 21 April 2004 (21.04.2004)					
Name and mailing address of the IPEA/JP		Authorized officer					
Facsimile No.		Telephone No.					



Internati	application No.
PCI	/JP2003/007611

With regard to the elements of the international application:* the international application as originally filed the description:	I. Basis of the report								
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2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. 4. The amendments have resulted in the cancellation of: the description, pages					_, filed with the demand				
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the description, pages the claims, Nos the drawings, sheets/fig This report has been established as if (some of) the amendments had not been made, since they have been considered to g beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.1).		the in Thes	the lar the lar the lar or 55. he regard iminary of contain filed to furnis furnis The se internal	anal application was filed, unless otherwise indicated under this filed. International search (under Rule 23.1(b)). Inguage of a translation furnished for the purposes of international search (under Rule 23.1(b)). Inguage of publication of the international application (under Rule 48.3(b)). Inguage of the translation furnished for the purposes of international preliminary examination 3). If to any nucleotide and/or amino acid sequence disclosed in the international application was carried out on the basis of the sequence listing: Since in the international application in written form. Stogether with the international application in computer readable form. Sched subsequently to this Authority in written form. Sched subsequently to this Authority in computer readable form. Statement that the subsequently furnished written sequence listing does not go beyon national application as filed has been furnished. Statement that the information recorded in computer readable form is identical to the written statement that the information recorded in computer readable form is identical to the written sequence listing does not go beyon the statement that the information recorded in computer readable form is identical to the written sequence listing does not go beyon the statement that the information recorded in computer readable form is identical to the written sequence listing does not go beyon the statement that the information recorded in computer readable form is identical to the written sequence listing does not go beyon the statement that the information recorded in computer readable form is identical to the written sequence listing the sequence listing does not go beyon the sequence listing the sequen	which is: on (under Rule 55.2 and/ cation, the international d the disclosure in the				
and 70.17). ** Am replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.		* Rep	This report	the description, pages the claims, Nos the drawings, sheets/fig report has been established as if (some of) the amendments had not been made, since they had the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** at sheets which have been furnished to the receiving Office in response to an invitation under ort as "originally filed" and are not annexed to this report since they do not contain	Article 14 are referred to amendments (Rule 70.16				





V. Reasoned statement under Artic citations and explanations suppo	le 35(2) with regard to novel orting such statement	ty, inventive step or industrial applical	oility;
1. Statement			YES
Novelty (N)	Claims	1-5	
	Claims		NO
			YES
Inventive step (IS)	Claims		NO
	Claims	1-5	
Industrial applicability (IA)	Claims	1-5	YES
industrial application (113)	Claims		NO
·			

2. Citations and explanations

Document 1: US 4540480 A (ARAKAWA KAGAKU KOGYO KABUSHIKI KAISHA) September 10, 1985

Based on the description in document 1 cited in the international search report, the inventions of claims 1-5 lack an inventive step.

Document 1 describes a catalyst in which alumina carries platinum and palladium as a catalyst that hydrogenates a petroleum resin obtained from styrene and cyclopentadiene (see Example 5). In addition, it states that sulfur residue is contained in the petroleum resin, and because it is a catalyst poison, poison resistance to sulfur is an extremely important factor for a catalyst. Furthermore, in Example 5 noted above, when palladium is added to platinum, almost no decline in the hydrogen addition ratio is seen even after 4000 hours have elapsed, and this has been found to be effective in prolonging catalyst life.

Based on the above description, specifying the optimal values for the amounts of platinum and palladium that are carried and the ratio of the two based on testing is merely within the scope of

conventional creativity of persons skilled in the art.